

SUST PROJECT suggested pickup flow and coming implementation

Pickup flow

walk through SUST PROJECT fumehood v2.pdf and fumehoodv2, understand the codebase.
run the interface with flask run and try to play around with the functionalities.
run .py to see the functions output and ensure it is still working.

walk through SUST PROJECT fume hood full version.pdf

1. Check Dagster, access GUI and try to kickoff a task, check the result on local csv.
2. Learn basic Docker, check docker status with "docker -ls", access mongoDB through CLI or MongoDBCompass, ensure mongoDB functionalities.
3. Learn Gradio, turn on Gradio app with "python gradio_app.py", try the basic functionalities.
4. Learn Vanna and play around the vanna_testing.ipynb
5. Understand the difference from FastAPI and Flask

Pending to do:

1. Migrate functions from Flask to FastAPI.
2. Finish and launch the Vanna backend and connect it to FastAPI.
3. Finish and launch the SQLite Note taking and develop an endpoint with FastAPI.
4. Finish the launch the Vanna backend for report generation.
5. Change the gradio data dashboard to offer several charts.
 - Pie Chart number of fumehoods against categories.
 - Pie Chart showing number of invalid and unavailable fumehoods.
 - Simple chart showing average Overnight data and Dangerous count data.
 - Any more.....Connect Update Data, Generate Report, Query Response and Save Notes functions to FastAPI

Note for Vanna:

Discuss and add documentation about the business terminology or definitions.
Makeup few sample queries with human or LLM.

Note for NoteTaking:

each fumehood should have its own note space